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Set Name side by side		Count	Set Name result set								
DB=PG	PB,USPT,EPAB,JPAB,DWPI; PLUR=YES; C	P=OR									
<u>L5</u>	l2 and L4	79	<u>L5</u>								
<u>L4</u>	(transformed or transgenic) adj rice	567	<u>L4</u>								
<u>L3</u>	(transformed or transgenic) adj plants	14877	<u>L3</u>								
<u>L2</u>	foreign adj (protein or polypeptides)	11321	<u>L2</u>								
DB=US	PT; PLUR=YES; OP=OR										

<u>L20</u> 119 and 117 and L11	8 <u>L20</u>
L19 optimized adj codon	438 <u>L19</u>
<u>L18</u> 111 and L17	348 <u>L18</u>
L17 (transgenic adj plants) or (transformed adj plants)	14877 <u>L17</u>
<u>L16</u> l11 and l14	9384 <u>L16</u>
<u>L15</u> l11 and l12 and L14	5348 <u>L15</u>
L14 (transformed or transgenic) plant	860870 <u>L14</u>
<u>L13</u> 111 and L12	6669 <u>L13</u>
<u>L12</u> improved	2946810 <u>L12</u>
L11 GM-CSF	

<u>L35</u> 111 and L34	4 <u>L35</u>
<u>L34</u> Tackaberry.in.	44 <u>L34</u>
<u>L33</u> 127	38 <u>L33</u>
<u>L32</u> L31	2 <u>L32</u>
<u>L31</u> 126	2 <u>L31</u>
<u>L30</u> 125	6 <u>L30</u>
<u>L29</u> 124	2 <u>L29</u>
DB=PGPB; PLUR=YES; OP=OR	
L28 l11 and L27	2 <u>L28</u>
L27 Ganz.in.	38 <u>L27</u>
L26 Dudani.in.	2 <u>L26</u>
L25 Sardana.in.	6 <u>L25</u>
<u>L24</u> Altosaar.in.	2 <u>L24</u>
<u>L23</u> 2005050602	0 <u>L23</u>
DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; O	P=OR
L22 Qiu adj Jian-Tai	7 <u>L22</u>
<u>L21</u> Qui adj Jian-Tai	0 <u>L21</u>
<u>L20</u> 119 and 117 and L11	8 <u>L20</u>
<u>L19</u> optimized adj codon	438 <u>L19</u>
<u>L18</u> 111 and L17	348 <u>L18</u>
L17 (transgenic adj plants) or (transformed adj plants)	1 4877 <u>L17</u>
<u>L16</u> l11 and l14	9384 <u>L16</u>
<u>L15</u> 111 and 112 and L14	5348 <u>L15</u>
<u>L14</u> (transformed or transgenic) plant	860870 <u>L14</u>
<u>L13</u> 111 and L12	6669 <u>L13</u>
<u>L12</u> improved	2946810 <u>L12</u>
L11 GM-CSF	12921 <u>L11</u>

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                 data from INPADOC
NEWS
        FEB 28
                BABS - Current-awareness alerts (SDIs) available
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     8 MAR 03
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     9 MAR 03 MEDLINE file segment of TOXCENTER reloaded
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NEWS 11 MAR 22
                Original IDE display format returns to REGISTRY/ZREGISTRY
    12 MAR 22
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                PATDPASPC - New patent database available
     13 MAR 22
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    14 APR 04
                EPFULL enhanced with additional patent information and new
NEWS
                 fields
NEWS 15 APR 04
                EMBASE - Database reloaded and enhanced
NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
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              AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
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=> set plurals on perm
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=> set abbr on perm
SET COMMAND COMPLETED

=> s foreign (w) (protein or polypeptides)
L1 5041 FOREIGN (W) (PROTEIN OR POLYPEPTIDES)

=> s GM-CSF

L2 35233 GM-CSF

=> s cereal

L3 302874 CEREAL

=> s 12 and 13

L4 2 L2 AND L3

=> d 14 1 ibib

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:185497 CAPLUS

DOCUMENT NUMBER:

142:275034

TITLE:

Methods for synthesis of recombinant human

granulocyte-macrophage colony stimulating factor in

transgenic cereal crops

INVENTOR(S):

Altosaar, Illimar; Sardana, Ravinder; Dudani, Anil;

Ganz, Peter; Tackaberry, Eilleen

PATENT ASSIGNEE(S):

Can.

SOURCE:

U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE:

Engils

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2005050602 A1 20050303 US 2003-723083 20031126
PRIORITY APPLN. INFO.: CA 2002-2410702 A 20021126

=> d 14 2 ibib

L4 ANSWER 2 OF 2 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER:

95:197929 CABA

DOCUMENT NUMBER:

19951612170
Harvesting blood proteins from grain

TITLE: AUTHOR:

Robinson, A.

SOURCE:

Canadian Medical Association Journal, (1995) Vol.

153, No. 4, pp. 427-429. 6 ref.

ISSN: 0820-3946

DOCUMENT TYPE:

Journal English LANGUAGE:

SUMMARY LANGUAGE:

French

ENTRY DATE:

Entered STN: 19951115

Last Updated on STN: 19951115

=> d 14 2 abs

ANSWER 2 OF 2 CABA COPYRIGHT 2005 CABI on STN

An account is given of the work of a multidisciplinary team of researchers AB at the University of Ottawa, Canada, which has resulted in the expression of a human blood protein, granulocyte-macrophage colony stimulating factor (GM-CSF), in tobacco seeds as part of a series of experiments whose ultimate goal is to express human blood proteins in transgenic cereal crops. The GM-CSF gene was expressed during seed development, and presence of the protein was confirmed by biochemical and immunological analyses. It is estimated that only 120 plants would be needed to satisfy Canada's annual need for this protein. Work on the oral uptake of these proteins and their expression in cereal crops is underway.

=> s rice

L5 304052 RICE

=> s 12 and 15

8 L2 AND L5

=> d 16 1 ibib

ANSWER 1 OF 8 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

2003:279638 BIOSIS ACCESSION NUMBER: DOCUMENT NUMBER: PREV200300279638

Immune enhancing effect by orally-administered mixture of TITLE:

Saccharomyces cerevisiae and fermented rice bran.

Koh, Jong Ho; Kim, Jin Man; Suh, Hyung Joo [Reprint Author] AUTHOR(S):

Obesity Research Center, Dongduk Women's University, Seoul, CORPORATE SOURCE:

> 136-174, South Korea suh1960@unitel.co.kr

SOURCE: Journal of Microbiology and Biotechnology, (April 2003)

Vol. 13, No. 2, pp. 196-201. print.

ISSN: 1017-7825.

DOCUMENT TYPE:

Article English

LANGUAGE: ENTRY DATE:

Entered STN: 11 Jun 2003

Last Updated on STN: 11 Jun 2003

=> d 16 2 ibib

BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN ANSWER 2 OF 8

2003:23292 BIOSIS ACCESSION NUMBER: DOCUMENT NUMBER: PREV200300023292

Biological activity of human granulocyte-macrophage colony TITLE:

stimulating factor is maintained in a fusion with seed

glutelin peptide.

Sardana, Ravinder K.; Alli, Zaman; Dudani, Anil; AUTHOR(S):

Tackaberry, Eilleen; Panahi, Mitra; Narayanan,

Muthukrishnan; Ganz, Peter; Altosaar, Illimar [Reprint

Authorl

CORPORATE SOURCE: Department of Biochemistry, Microbiology and Immunology,

Faculty of Medicine, University of Ottawa, 40 Marie Curie,

Ottawa, ON, K1N 6N5, Canada

altosaar@uottawa.ca

SOURCE: Transgenic Research, (October 2002) Vol. 11, No. 5, pp.

521-531. print.

ISSN: 0962-8819 (ISSN print).

DOCUMENT TYPE:

Article

LANGUAGE:

English

ENTRY DATE:

Entered STN: 1 Jan 2003

Last Updated on STN: 1 Jan 2003

=> d 16 3 ibib

L6 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2005:185497 CAPLUS

DOCUMENT NUMBER:

142:275034

TITLE:

Methods for synthesis of recombinant human

granulocyte-macrophage colony stimulating factor in

transgenic cereal crops

INVENTOR(S):

Altosaar, Illimar; Sardana, Ravinder; Dudani, Anil;

Ganz, Peter; Tackaberry, Eilleen

PATENT ASSIGNEE(S):

Can.

SOURCE:

U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005050602	A1	20050303	US 2003-723083	20031126
PRIORITY APPLN. INFO.:			CA 2002-2410702 A	20021126

=> d 16 4 ibib

L6 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:752746 CAPLUS

DOCUMENT NUMBER:

139:275813

TITLE:

Vinigrol derivatives, microbial manufacture of them,

and **GM-CSF-**like pharmaceutical compositions containing them

INVENTOR(S):

Yutsudo, Takashi; Koizumi, Kenzo; Kagawa, Shimizu

PATENT ASSIGNEE(S):

Shionogi and Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

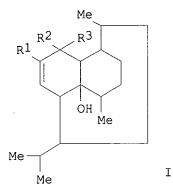
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-			
JP 2003267930 PRIORITY APPLN. INFO.:	A2	20030925	JP 2002-69685 JP 2002-69685	20020314
PRIORITI AFFLN. INTO			01 2002 07003	20020311

OTHER SOURCE(S):

MARPAT 139:275813

=> d 16 4 abs

L6 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN



AB Claimed are GM-CSF-like pharmaceutical compns., immunostimulants, prophylactic or therapeutic agents for neutropenia, antitumor agents the derivs. I [R1 = CHO, CH2R4 (R4 = OH, protected hydroxy); one of R2 and R3 = H and the other = H, OH, protected hydroxy; R2R3 may represents :0], their optical isomers, their pharmaceuticallyacceptable salts, or their hydrates. I (R1 = CHO, CH2R4; R2 = R3 = H) and I (R1 = CH2OAc, R2 = H, R3 = OH) are manufactured by culturing Bloxamia. Bloxamia cremea RF-19445 (P-18755) was cultured on a medium containing brown rice, dried okara, glucose, yeast extract, and ${\rm H2O}$ at ${\rm 23}^{\circ}$ for 14 days to give II and III. II was also prepared form vinigrol. inhibited growth of human erythroleukemia K562 cells at IC50 0.59 μg/mL. Pharmaceutical formulations of II were also given.

=> d 16 5 ibib

ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:730085 CAPLUS

138:164311 DOCUMENT NUMBER:

TITLE: Biological activity of human granulocyte-macrophage

colony stimulating factor is maintained in a fusion

with seed glutelin peptide

Sardana, Ravinder K.; Alli, Zaman; Dudani, Anil; AUTHOR(S):

Tackaberry, Eilleen; Panahi, Mitra; Narayanan, Muthukrishnan; Ganz, Peter; Altosaar, Illimar Faculty of Medicine, Microbiology and Immunology,

CORPORATE SOURCE:

Department of Biochemistry, University of Ottawa,

Ottawa, ON, K1N 6N5, Can.

SOURCE: Transgenic Research (2002), 11(5), 521-531

CODEN: TRSEES; ISSN: 0962-8819

Kluwer Academic Publishers PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 16 6 ibib

ANSWER 6 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:442749 CAPLUS

DOCUMENT NUMBER: 119:42749

TITLE: Plant virus expression vectors and their use in

manufacture of products with plants

Donson, Jon; Dawson, William O.; Grantham, George L.; INVENTOR(S):

Turpen, Thomas H.; Turpen, Ann Myers; Garger, Stephen

J.; Grill, Laurence K.

PATENT ASSIGNEE(S):

SOURCE:

USA

PCT Int. Appl., 129 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

Engli 20

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.						APPLICATION NO.						DATE					
	WO	9303	3161			A1		1993	0218		WO	1992- P, KP,	-US63					
			PL,	RO,	RU,	SD,	US											
	ΑU	9333	3511			A1		1993	0302		ΑU	1993-	-3351	.1			19920	731
	ΑU	6834	12			В2		1997	1113									
	ΕP	5969	79			A1		1994	0518		EΡ	1992-	-9164	41			19920	731
	ΕP	5969	79			В1		2002	0130									
		R:	AT,	BE,	CH,	DE,	DK	, ES,	FR,	GB,	GF	R, IT	LI,	LU,	MC,	NL	, SE	
	JР	0750	3361		•	Т2		1995	0413		JΡ	1992-	-5116	511			19920	731
	ΑT	2126	571			E		2002	0215		ΑT	1992- 1992-	-9164	41			19920	731
	ES	2171	.398			Т3		2002	0916		ES	1992	-9164	41	•		19920	731
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	AU	7414	43			В2		2001	1129									
	JΡ	2001	43 .0543	94		A2		2001	0227		JΡ	2000-	-2120	70			20000	712
		3545	683			В2		2004	0721									
	JP	2002						2002	0618		JΡ	2001-	-3132	207			20011	010
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											TD	1000	E 1 1 6	-11		7. 2	10000	721
											WO	1992	-US63	359		A	19920	731
											ΑU	1992 1995	-1173	34		A3	19941	108

=> d 16 6 abs

L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN

AB Plant virus expression vectors capable of systemic infection of a host plant and of expressing an heterologous gene from a viral promoter are used for the manufacture of heterologous protein in plants. The promoter region used for the heterologous gene is incapable of recombination with the plant virus subgenomic promoters. Plasmid pBGC152 containing tobacco mosaic virus (TMV) cDNA including an α -trichosanthin gene under control of the TMV coat protein subgenomic promoter replacing the TMV coat protein gene, and the odontoglossum ringspot virus coat protein gene with its associated subgenomic promoter, was prepared TMV vector RNA produced from this plasmid by in vitro transcription from an SP6 promoter adjacent to the construct was used to infect Nicotiana benthamiana. Systemic infection of the plant was observed, and, at 14 days post-inoculation, α -trichosanthin accumulated in the upper leaves to levels of at least 2% of the total soluble protein. The α -trichosanthin was isolated, purified, and shown to be biol. active.

=> d 16 7 ibib

L6 ANSWER 7 OF 8 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER:

2003:19386 CABA

DOCUMENT NUMBER:

20023171035

TITLE:

Biological activity of human granulocyte-macrophage

colony stimulating factor is maintained in a fusion

with seed glutelin peptide

Sardana, R. K.; Alli, Z.; Dudani, A.; Tackaberry, AUTHOR:

E.; Panahi, M.; Narayanan, M.; Ganz, P.; Altosaar,

Department of Biochemistry, Microbiology and CORPORATE SOURCE:

Immunology, Faculty of Medicine, University of Ottawa, 40 Marie Curie, Ottawa, Ontario, KlN 6N5,

Canada. altosaar@uottawa.ca

Transgenic Research, (2002) Vol. 11, No. 5, pp. SOURCE:

521-531. many ref.

Publisher: Kluwer Academic Publishers. Dordrecht

ISSN: 0962-8819

Netherlands Antilles

PUB. COUNTRY: DOCUMENT TYPE:

Journal English

LANGUAGE: ENTRY DATE:

Entered STN: 20030214

Last Updated on STN: 20030214

=> d 16 8 ibib

ANSWER 8 OF 8 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.

on STN

ACCESSION NUMBER:

2003189926 EMBASE

TITLE:

Immune enhancing effect by orally-administered mixture of

Saccharomyces cerevisiae and fermented rice bran.

AUTHOR:

CORPORATE SOURCE:

Koh J.H.; Kim J.M.; Suh H.J.
H.J. Suh, Department of Food and Nutrition, College of Health Sciences, Korea University, Seoul 136-703, Korea,

Republic of. suh1960@unitel.co.kr

SOURCE:

Journal of Microbiology and Biotechnology, (2003) Vol. 13,

No. 2, pp. 196-201.

Refs: 23

ISSN: 1017-7825 CODEN: JOMBES

COUNTRY:

Korea, Republic of DOCUMENT TYPE: Journal; Article Microbiology FILE SEGMENT: 004

Immunology, Serology and Transplantation 026

030 Pharmacology

037 Drug Literature Index

LANGUAGE:

SUMMARY LANGUAGE:

English English

ENTRY DATE:

Entered STN: 20030522

Last Updated on STN: 20030522

=> s cereal

L7 302874 CEREAL

=> s GM-CSF

L8 35233 GM-CSF

=> s 17 and 18

L9 2 L7 AND L8

=> d 19 1 ibib

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2005:185497 CAPLUS

DOCUMENT NUMBER:

142:275034

TITLE:

Methods for synthesis of recombinant human

granulocyte-macrophage colony stimulating factor in

transgenic cereal crops

INVENTOR(S):

Altosaar, Illimar; Sardana, Ravinder; Dudani, Anil;

Ganz, Peter; Tackaberry, Eilleen

PATENT ASSIGNEE(S):

Can.

SOURCE:

U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
·				
US 2005050602	A1	20050303	US 2003-723083	20031126
PRIORITY APPLN. INFO.:			CA 2002-2410702 A	20021126

=> d 19 3 ibib

2 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE The answer numbers requested are not in the answer set. ENTER ANSWER NUMBER OR RANGE (1):2

L9 ANSWER 2 OF 2 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER:

95:197929 CABA

DOCUMENT NUMBER:

19951612170

TITLE:

Harvesting blood proteins from grain

AUTHOR:

Robinson, A.

SOURCE:

Canadian Medical Association Journal, (1995) Vol.

153, No. 4, pp. 427-429. 6 ref.

ISSN: 0820-3946

DOCUMENT TYPE:

Journal English

LANGUAGE: SUMMARY LANGUAGE:

French

ENTRY DATE:

Entered STN: 19951115

Last Updated on STN: 19951115

=> s Altosaar, I?/au

334 ALTOSAAR, I?/AU L16

=> s GM-CSF

35233 GM-CSF L17

=> s 116 and 117

7 L16 AND L17 L18

=> d l18 1 ibib

L18 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

2003:23292 BIOSIS ACCESSION NUMBER: PREV200300023292 DOCUMENT NUMBER:

Biological activity of human granulocyte-macrophage colony TITLE:

stimulating factor is maintained in a fusion with seed

glutelin peptide.

Sardana, Ravinder K.; Alli, Zaman; Dudani, Anil; AUTHOR(S):

Tackaberry, Eilleen; Panahi, Mitra; Narayanan, Muthukrishnan; Ganz, Peter; Altosaar, Illimar

[Reprint Author]

CORPORATE SOURCE: Department of Biochemistry, Microbiology and Immunology,

Faculty of Medicine, University of Ottawa, 40 Marie Curie,

Ottawa, ON, K1N 6N5, Canada

altosaar@uottawa.ca

Transgenic Research, (October 2002) Vol. 11, No. 5, pp. SOURCE:

521-531. print.

ISSN: 0962-8819 (ISSN print).

DOCUMENT TYPE: LANGUAGE:

Article English

Entered STN: 1 Jan 2003 ENTRY DATE:

Last Updated on STN: 1 Jan 2003

=> d l18 2 ibib

L18 ANSWER 2 OF 7 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1998:236789 BIOSIS DOCUMENT NUMBER: PREV199800236789

TITLE: Synthesis of recombinant human cytokine GM-

CSF in the seeds of transgenic tobacco plants.

Sardana, Ravinder K.; Ganz, Peter R.; Dudani, Anil; AUTHOR(S):

Tackaberry, Eilleen S.; Cheng, Xiongying; Altosaar,

Illimar

Dep. Biochem., Univ. Ottawa, Ottawa, ON, Canada CORPORATE SOURCE:

Cunningham, C. [Editor]; Porter, A. J. R. [Editor]. (1998) SOURCE:

pp. 77-87. Methods in Biotechnology; Recombinant proteins form plants: Production and isolation of clinically useful

compounds. print.

Publisher: Humana Press Inc., Suite 808, 999 Riverview Drive, Totowa, New Jersey 07512, USA. Series: Methods in

Biotechnology.

ISBN: 0-89603-390-2.

DOCUMENT TYPE: Book

Book; (Book Chapter)

LANGUAGE: English

ENTRY DATE: Entered STN: 4 Jun 1998

Last Updated on STN: 4 Jun 1998

=> d 118 3 ibib

L18 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2005:185497 CAPLUS

DOCUMENT NUMBER:

142:275034

TITLE:

Methods for synthesis of recombinant human

granulocyte-macrophage colony stimulating factor in

transgenic cereal crops

INVENTOR(S):

Altosaar, Illimar; Sardana, Ravinder;

Dudani, Anil; Ganz, Peter; Tackaberry, Eilleen Can.

SOURCE:

U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT ASSIGNEE(S):

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		-		
US 2005050602	A1	20050303	US 2003-723083	20031126
PRIORITY APPLN. INFO.:		•	CA 2002-2410702	A 20021126

=> d 118 4 ibib

L18 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:730085 CAPLUS

DOCUMENT NUMBER:

138:164311

TITLE:

Biological activity of human granulocyte-macrophage colony stimulating factor is maintained in a fusion

with seed glutelin peptide

AUTHOR(S):

Sardana, Ravinder K.; Alli, Zaman; Dudani, Anil; Tackaberry, Eilleen; Panahi, Mitra; Narayanan, Muthukrishnan; Ganz, Peter; Altosaar, Illimar Faculty of Medicine, Microbiology and Immunology,

CORPORATE SOURCE:

Department of Biochemistry, University of Ottawa,

Ottawa, ON, K1N 6N5, Can.

SOURCE:

Transgenic Research (2002), 11(5), 521-531

CODEN: TRSEES; ISSN: 0962-8819

PUBLISHER:

Kluwer Academic Publishers

DOCUMENT TYPE: LANGUAGE:

Journal English

REFERENCE COUNT:

THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS 51

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 118 5 ibib

L18 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1998:218988 CAPLUS 128:256401

DOCUMENT NUMBER: TITLE:

AUTHOR(S):

Synthesis of recombinant human cytosine GM-

CSF in the seeds of transgenic tobacco plants Sardana, Ravinder K.; Ganz, Peter R.; Dudani, Anil;

Tackaberry, Eilleen S.; Cheng, Xiongying;

Altosaar, Illimar

CORPORATE SOURCE:

Department of Biochemistry, University of Ottawa, ON,

Can.

SOURCE:

Methods in Biotechnology (1998), 3(Recombinant

Proteins from Plants), 77-87

CODEN: MEBIFQ Humana Press Inc.

PUBLISHER: DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

REFERENCE COUNT: THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS 20 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l18 6 ibib

L18 ANSWER 6 OF 7 CABA COPYRIGHT 2005 CABI on STN

2003:19386 CABA ACCESSION NUMBER:

20023171035 DOCUMENT NUMBER:

Biological activity of human granulocyte-macrophage TITLE:

colony stimulating factor is maintained in a fusion

with seed glutelin peptide

Sardana, R. K.; Alli, Z.; Dudani, A.; Tackaberry, AUTHOR:

E.; Panahi, M.; Narayanan, M.; Ganz, P.;

Altosaar, I.

Department of Biochemistry, Microbiology and CORPORATE SOURCE:

Immunology, Faculty of Medicine, University of Ottawa, 40 Marie Curie, Ottawa, Ontario, KIN 6N5,

Canada. altosaar@uottawa.ca

SOURCE: Transgenic Research, (2002) Vol. 11, No. 5, pp.

521-531. many ref.

Publisher: Kluwer Academic Publishers. Dordrecht

ISSN: 0962-8819

PUB. COUNTRY: Netherlands Antilles

DOCUMENT TYPE: Journal LANGUAGE: English

Entered STN: 20030214 ENTRY DATE:

Last Updated on STN: 20030214

=> d 118 7 ibib

L18 ANSWER 7 OF 7 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER: 1998:54322 CABA

DOCUMENT NUMBER: 19981602409

TITLE: Expression of human blood proteins in transgenic

plants: the cytokine GM-CSF as a

model protein

AUTHOR:

Ganz, P. R.; Dudani, A. K.; Tackaberry, E. S.; Sardana, R.; Sauder, C.; Cheng XiongYing; Altosaar, I.; Cheng, X. Y.; Owen, M. R. L. [EDITOR]; Pen, J. [EDITOR]

CORPORATE SOURCE: Drugs Directorate, Health Canada, Ottawa, Canada.

Transgenic plants: a production system for SOURCE:

industrial and pharmaceutical proteins, (1996) pp.

281-297. 53 ref.

Publisher: John Wiley & Sons Ltd. Chichester

ISBN: 0-471-96444-1

PUB. COUNTRY: United Kingdom DOCUMENT TYPE: Book; Book Article

LANGUAGE: English

ENTRY DATE: Entered STN: 19980407

Last Updated on STN: 19980407

=> d 118 8 ibib

7 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE The answer numbers requested are not in the answer set. ENTER ANSWER NUMBER OR RANGE (1):7

L18 ANSWER 7 OF 7 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER: 1998:54322 CABA

DOCUMENT NUMBER: 19981602409

Expression of human blood proteins in transgenic TITLE:

plants: the cytokine GM-CSF as a

model protein

Ganz, P. R.; Dudani, A. K.; Tackaberry, E. S.; AUTHOR:

Sardana, R.; Sauder, C.; Cheng XiongYing; Altosaar, I.; Cheng, X. Y.; Owen, M. R. L.

[EDITOR]; Pen, J. [EDITOR]

CORPORATE SOURCE:

Drugs Directorate, Health Canada, Ottawa, Canada.

Transgenic plants: a production system for SOURCE:

industrial and pharmaceutical proteins, (1996) pp.

281-297. 53 ref.

Publisher: John Wiley & Sons Ltd. Chichester

ISBN: 0-471-96444-1

PUB. COUNTRY: DOCUMENT TYPE:

United Kingdom Book; Book Article

English

LANGUAGE: ENTRY DATE:

Entered STN: 19980407

Last Updated on STN: 19980407

=> s Sardana, R?/au

106 SARDANA, R?/AU

=> s GM-CSF

L20 35233 GM-CSF

=> s 119 and 120

7 L19 AND L20

=> d 121 1 ibib

L21 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2003:23292 BIOSIS PREV200300023292

TITLE:

Biological activity of human granulocyte-macrophage colony

stimulating factor is maintained in a fusion with seed

glutelin peptide.

AUTHOR(S):

Sardana, Ravinder K.; Alli, Zaman; Dudani, Anil; Tackaberry, Eilleen; Panahi, Mitra; Narayanan, Muthukrishnan; Ganz, Peter; Altosaar, Illimar [Reprint

Authorl

CORPORATE SOURCE:

Department of Biochemistry, Microbiology and Immunology, Faculty of Medicine, University of Ottawa, 40 Marie Curie, Ottawa, ON, K1N 6N5, Canada

altosaar@uottawa.ca

SOURCE:

Transgenic Research, (October 2002) Vol. 11, No. 5, pp.

521-531. print.

ISSN: 0962-8819 (ISSN print).

DOCUMENT TYPE:

Article English

LANGUAGE: ENTRY DATE:

Entered STN: 1 Jan 2003

Last Updated on STN: 1 Jan 2003

=> d 121 2 ibib

BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN L21 ANSWER 2 OF 7

ACCESSION NUMBER: DOCUMENT NUMBER:

1998:236789 BIOSIS PREV199800236789

TITLE:

Synthesis of recombinant human cytokine GM-

CSF in the seeds of transgenic tobacco plants.

Sardana, Ravinder K.; Ganz, Peter R.; Dudani, AUTHOR(S):

Anil; Tackaberry, Eilleen S.; Cheng, Xiongying; Altosaar,

Illimar

CORPORATE SOURCE:

SOURCE:

Dep. Biochem., Univ. Ottawa, Ottawa, ON, Canada

Cunningham, C. [Editor]; Porter, A. J. R. [Editor]. (1998) pp. 77-87. Methods in Biotechnology; Recombinant proteins

form plants: Production and isolation of clinically useful

compounds. print.

Publisher: Humana Press Inc., Suite 808, 999 Riverview Drive, Totowa, New Jersey 07512, USA. Series: Methods in

Biotechnology.

ISBN: 0-89603-390-2.

DOCUMENT TYPE:

Book

Book; (Book Chapter)

LANGUAGE:

English

ENTRY DATE:

Entered STN: 4 Jun 1998

Last Updated on STN: 4 Jun 1998

=> d 121 3 ibib

L21 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2005:185497 CAPLUS

DOCUMENT NUMBER:

142:275034

TITLE:

Methods for synthesis of recombinant human

granulocyte-macrophage colony stimulating factor in

transgenic cereal crops

INVENTOR(S):

Altosaar, Illimar; Sardana, Ravinder;

Dudani, Anil; Ganz, Peter; Tackaberry, Eilleen

PATENT ASSIGNEE(S):

Can.

SOURCE:

U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE -----____ -----_____ A1 US 2005050602 20050303 US 2003-723083 20031126 CA 2002-2410702 A 20021126 PRIORITY APPLN. INFO.:

=> d 121 4 ibib

L21 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:730085 CAPLUS

DOCUMENT NUMBER:

138:164311

TITLE:

Biological activity of human granulocyte-macrophage colony stimulating factor is maintained in a fusion

with seed glutelin peptide

AUTHOR(S):

Sardana, Ravinder K.; Alli, Zaman; Dudani,

Anil; Tackaberry, Eilleen; Panahi, Mitra; Narayanan,

Muthukrishnan; Ganz, Peter; Altosaar, Illimar

CORPORATE SOURCE:

Faculty of Medicine, Microbiology and Immunology, Department of Biochemistry, University of Ottawa,

Ottawa, ON, K1N 6N5, Can.

SOURCE:

Transgenic Research (2002), 11(5), 521-531

CODEN: TRSEES; ISSN: 0962-8819

PUBLISHER:

Kluwer Academic Publishers

DOCUMENT TYPE:

Journal English

LANGUAGE: REFERENCE COUNT:

51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 121 5 ibib

L21 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1998:218988 CAPLUS

128:256401 DOCUMENT NUMBER:

TITLE: Synthesis of recombinant human cytosine GM-

CSF in the seeds of transgenic tobacco plants

Sardana, Ravinder K.; Ganz, Peter R.; AUTHOR(S):

Dudani, Anil; Tackaberry, Eilleen S.; Cheng,

Xiongying; Altosaar, Illimar

CORPORATE SOURCE: Department of Biochemistry, University of Ottawa, ON,

Can.

Methods in Biotechnology (1998), 3(Recombinant SOURCE:

Proteins from Plants), 77-87

CODEN: MEBIFQ

Humana Press Inc. PUBLISHER:

Journal; General Review DOCUMENT TYPE:

English LANGUAGE:

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 20

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 121 6 ibib

L21 ANSWER 6 OF 7 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER: 2003:19386 CABA DOCUMENT NUMBER: 20023171035

Biological activity of human granulocyte-macrophage TITLE:

colony stimulating factor is maintained in a fusion

with seed glutelin peptide

Sardana, R. K.; Alli, Z.; Dudani, A.; AUTHOR:

Tackaberry, E.; Panahi, M.; Narayanan, M.; Ganz, P.;

Altosaar, I.

Department of Biochemistry, Microbiology and CORPORATE SOURCE:

Immunology, Faculty of Medicine, University of Ottawa, 40 Marie Curie, Ottawa, Ontario, KlN 6N5,

Canada. altosaar@uottawa.ca

Transgenic Research, (2002) Vol. 11, No. 5, pp. SOURCE:

521-531. many ref.

Publisher: Kluwer Academic Publishers. Dordrecht

ISSN: 0962-8819

Netherlands Antilles
Journal PUB. COUNTRY:

DOCUMENT TYPE: LANGUAGE: English

Entered STN: 20030214 ENTRY DATE:

Last Updated on STN: 20030214

=> d 121 7 ibib

L21 ANSWER 7 OF 7 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER: 1998:54322 CABA DOCUMENT NUMBER: 19981602409

Expression of human blood proteins in transgenic TITLE:

plants: the cytokine GM-CSF as a

model protein

AUTHOR:

Ganz, P. R.; Dudani, A. K.; Tackaberry, E. S.; Sardana, R.; Sauder, C.; Cheng XiongYing; Altosaar, I.; Cheng, X. Y.; Owen, M. R. L. [EDITOR];

Pen, J. [EDITOR]

Drugs Directorate, Health Canada, Ottawa, Canada. CORPORATE SOURCE:

Transgenic plants: a production system for SOURCE:

industrial and pharmaceutical proteins, (1996) pp.

281-297. 53 ref.

Publisher: John Wiley & Sons Ltd. Chichester

ISBN: 0-471-96444-1

PUB. COUNTRY: United Kingdom

DOCUMENT TYPE: Book; Book Article LANGUAGE:

English

ENTRY DATE:

Entered STN: 19980407

Last Updated on STN: 19980407

=> d 121 8 ibib

7 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE The answer numbers requested are not in the answer set. ENTER ANSWER NUMBER OR RANGE (1):7

L21 ANSWER 7 OF 7 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER:

1998:54322 CABA

DOCUMENT NUMBER:

19981602409

TITLE:

Expression of human blood proteins in transgenic

plants: the cytokine GM-CSF as a

model protein

AUTHOR:

SOURCE:

Ganz, P. R.; Dudani, A. K.; Tackaberry, E. S.;

Sardana, R.; Sauder, C.; Cheng XiongYing;

Altosaar, I.; Cheng, X. Y.; Owen, M. R. L. [EDITOR];

Pen, J. [EDITOR]

CORPORATE SOURCE:

Drugs Directorate, Health Canada, Ottawa, Canada.

Transgenic plants: a production system for

industrial and pharmaceutical proteins, (1996) pp.

281-297. 53 ref.

Publisher: John Wiley & Sons Ltd. Chichester

ISBN: 0-471-96444-1

PUB. COUNTRY: DOCUMENT TYPE:

United Kingdom Book; Book Article

LANGUAGE:

English

ENTRY DATE:

Entered STN: 19980407

Last Updated on STN: 19980407

=> s Dudani, A?/au

206 DUDANI, A?/AU

=> s GM-CSF

35233 GM-CSF

=> s 122 and 123

7 L22 AND L23

=> d 124 1 ibib

L24 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2003:23292 BIOSIS PREV200300023292

TITLE:

Biological activity of human granulocyte-macrophage colony

stimulating factor is maintained in a fusion with seed

glutelin peptide.

AUTHOR(S):

Sardana, Ravinder K.; Alli, Zaman; Dudani, Anil;

Tackaberry, Eilleen; Panahi, Mitra; Narayanan, Muthukrishnan; Ganz, Peter; Altosaar, Illimar [Reprint

CORPORATE SOURCE:

Department of Biochemistry, Microbiology and Immunology, Faculty of Medicine, University of Ottawa, 40 Marie Curie,

Ottawa, ON, K1N 6N5, Canada

altosaar@uottawa.ca

SOURCE:

Transgenic Research, (October 2002) Vol. 11, No. 5, pp.

521-531. print.

ISSN: 0962-8819 (ISSN print).

DOCUMENT TYPE:

Article English

LANGUAGE: ENTRY DATE:

Entered STN: 1 Jan 2003

Last Updated on STN: 1 Jan 2003

=> d 124 2 ibib

BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN L24 ANSWER 2 OF 7

1998:236789 BIOSIS ACCESSION NUMBER: DOCUMENT NUMBER: PREV199800236789

Synthesis of recombinant human cytokine GM-TITLE:

CSF in the seeds of transgenic tobacco plants.

Sardana, Ravinder K.; Ganz, Peter R.; Dudani, Anil AUTHOR(S):

; Tackaberry, Eilleen S.; Cheng, Xiongying; Altosaar,

Illimar

Dep. Biochem., Univ. Ottawa, Ottawa, ON, Canada CORPORATE SOURCE:

Cunningham, C. [Editor]; Porter, A. J. R. [Editor]. (1998) SOURCE:

pp. 77-87. Methods in Biotechnology; Recombinant proteins form plants: Production and isolation of clinically useful

compounds. print.

Publisher: Humana Press Inc., Suite 808, 999 Riverview Drive, Totowa, New Jersey 07512, USA. Series: Methods in

Biotechnology.

ISBN: 0-89603-390-2.

DOCUMENT TYPE: Book

Book; (Book Chapter)

English LANGUAGE:

Entered STN: 4 Jun 1998 ENTRY DATE:

Last Updated on STN: 4 Jun 1998

=> d 124 3 ibib

L24 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:185497 CAPLUS

DOCUMENT NUMBER: 142:275034

Methods for synthesis of recombinant human TITLE:

granulocyte-macrophage colony stimulating factor in

transgenic cereal crops

Altosaar, Illimar; Sardana, Ravinder; Dudani, INVENTOR(S):

Anil; Ganz, Peter; Tackaberry, Eilleen

PATENT ASSIGNEE(S): Can.

U.S. Pat. Appl. Publ., 23 pp. SOURCE:

CODEN: USXXCO

DOCUMENT TYPE:

Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE		
·				•			
US 2005050602 PRIORITY APPLN. INFO.:	A1	20050303	US 2003-723083 CA 2002-2410702	А	20031126 20021126		

=> d 124 4 ibib

L24 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

2002:730085 CAPLUS ACCESSION NUMBER:

138:164311 DOCUMENT NUMBER:

Biological activity of human granulocyte-macrophage TITLE:

colony stimulating factor is maintained in a fusion

with seed glutelin peptide

Sardana, Ravinder K.; Alli, Zaman; Dudani, AUTHOR(S):

Anil; Tackaberry, Eilleen; Panahi, Mitra;

Narayanan, Muthukrishnan; Ganz, Peter; Altosaar,

Illimar

CORPORATE SOURCE: Faculty of Medicine, Microbiology and Immunology,

Department of Biochemistry, University of Ottawa,

Ottawa, ON, K1N 6N5, Can.

SOURCE: Transgenic Research (2002), 11(5), 521-531

CODEN: TRSEES; ISSN: 0962-8819

PUBLISHER:

Kluwer Academic Publishers

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE COUNT:

51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 124 5 ibib

L24 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1998:218988 CAPLUS

DOCUMENT NUMBER:

128:256401

TITLE:

Synthesis of recombinant human cytosine GM-CSF in the seeds of transgenic tobacco plants Sardana, Ravinder K.; Ganz, Peter R.; Dudani,

AUTHOR(S):

Sardana, Ravinder K.; Ganz, Peter R.; Dudani,
Anil; Tackaberry, Eilleen S.; Cheng, Xiongying;

Altosaar, Illimar

CORPORATE SOURCE:

Department of Biochemistry, University of Ottawa, ON,

Can.

SOURCE:

Methods in Biotechnology (1998), 3(Recombinant

Proteins from Plants), 77-87

CODEN: MEBIFQ

PUBLISHER:

Humana Press Inc.

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

REFERENCE COUNT:

20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 124 6 ibib

L24 ANSWER 6 OF 7 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER:

2003:19386 CABA

DOCUMENT NUMBER:

20023171035

TITLE:

Biological activity of human granulocyte-macrophage colony stimulating factor is maintained in a fusion

with seed glutelin peptide

AUTHOR:

Sardana, R. K.; Alli, Z.; Dudani, A.;

Tackaberry, E.; Panahi, M.; Narayanan, M.; Ganz, P.;

Altosaar, I.

CORPORATE SOURCE:

Department of Biochemistry, Microbiology and Immunology, Faculty of Medicine, University of Ottawa, 40 Marie Curie, Ottawa, Ontario, K1N 6N5,

Canada. altosaar@uottawa.ca

SOURCE:

Transgenic Research, (2002) Vol. 11, No. 5, pp.

521-531. many ref.

Publisher: Kluwer Academic Publishers. Dordrecht

ISSN: 0962-8819

PUB. COUNTRY:

Netherlands Antilles

DOCUMENT TYPE: LANGUAGE:

Journal English

ENTRY DATE:

Entered STN: 20030214

Last Updated on STN: 20030214

=> d 124 7 ibib

L24 ANSWER 7 OF 7 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER:

1998:54322 CABA

DOCUMENT NUMBER:

19981602409

TITLE:

Expression of human blood proteins in transgenic

plants: the cytokine GM-CSF as a

model protein

AUTHOR:

Ganz, P. R.; Dudani, A. K.; Tackaberry, E.
S.; Sardana, R.; Sauder, C.; Cheng XiongYing;

Altosaar, I.; Cheng, X. Y.; Owen, M. R. L. [EDITOR];

Pen, J. [EDITOR]

CORPORATE SOURCE:

SOURCE:

Drugs Directorate, Health Canada, Ottawa, Canada.
Transgenic plants: a production system for

Transgenic plants: a production system for industrial and pharmaceutical proteins, (1996) pp.

281-297. 53 ref.

Publisher: John Wiley & Sons Ltd. Chichester

ISBN: 0-471-96444-1 United Kingdom

PUB. COUNTRY: DOCUMENT TYPE:

Book; Book Article

LANGUAGE:

English

ENTRY DATE:

Entered STN: 19980407

Last Updated on STN: 19980407

=> s Ganz, P?/au

L25 932 GANZ, P?/AU

=> s GM-CSF

L26 35233 GM-CSF

=> s 125 and 126

L27 10 L25 AND L26

=> duplicate remove

ENTER L# LIST OR (END):127

DUPLICATE PREFERENCE IS 'BIOSIS, CAPLUS, CABA, EMBASE'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L27

L28 6 DUPLICATE REMOVE L27 (4 DUPLICATES REMOVED)

=> d 128 1 ibib

L28 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2005:185497 CAPLUS

DOCUMENT NUMBER:

142:275034

TITLE:

Methods for synthesis of recombinant human

granulocyte-macrophage colony stimulating factor in

transgenic cereal crops

INVENTOR(S):

Altosaar, Illimar; Sardana, Ravinder; Dudani, Anil;

Ganz, Peter; Tackaberry, Eilleen

PATENT ASSIGNEE(S):

Can.

SOURCE:

U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
US 2005050602 PRIORITY APPLN. INFO.:	A1	20050303	US 2003-723083 CA 2002-2410702 A	20031126 20021126		

L28 ANSWER 2 OF 6 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

DUPLICATE 1

2003:23292 BIOSIS ACCESSION NUMBER: DOCUMENT NUMBER: PREV200300023292

Biological activity of human granulocyte-macrophage colony TITLE:

stimulating factor is maintained in a fusion with seed

glutelin peptide.

Sardana, Ravinder K.; Alli, Zaman; Dudani, Anil; AUTHOR(S):

Tackaberry, Eilleen; Panahi, Mitra; Narayanan, Muthukrishnan; Ganz, Peter; Altosaar, Illimar

[Reprint Author]

Department of Biochemistry, Microbiology and Immunology, CORPORATE SOURCE:

Faculty of Medicine, University of Ottawa, 40 Marie Curie,

Ottawa, ON, K1N 6N5, Canada

altosaar@uottawa.ca

Transgenic Research, (October 2002) Vol. 11, No. 5, pp. SOURCE:

521-531. print.

ISSN: 0962-8819 (ISSN print).

DOCUMENT TYPE: Article LANGUAGE:

English Entered STN: 1 Jan 2003 ENTRY DATE:

Last Updated on STN: 1 Jan 2003

=> d 128 3 ibib

L28 ANSWER 3 OF 6 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1998:236789 BIOSIS DOCUMENT NUMBER: PREV199800236789

TITLE: Synthesis of recombinant human cytokine GM-

> CSF in the seeds of transgenic tobacco plants. Sardana, Ravinder K.; Ganz, Peter R.; Dudani,

Anil; Tackaberry, Eilleen S.; Cheng, Xiongying; Altosaar,

Illimar

CORPORATE SOURCE:

SOURCE:

AUTHOR(S):

Dep. Biochem., Univ. Ottawa, Ottawa, ON, Canada Cunningham, C. [Editor]; Porter, A. J. R. [Editor]. (1998) pp. 77-87. Methods in Biotechnology; Recombinant proteins form plants: Production and isolation of clinically useful

compounds. print.

Publisher: Humana Press Inc., Suite 808, 999 Riverview Drive, Totowa, New Jersey 07512, USA. Series: Methods in

Biotechnology.

ISBN: 0-89603-390-2.

DOCUMENT TYPE: Book

Book; (Book Chapter)

English LANGUAGE:

Entered STN: 4 Jun 1998 ENTRY DATE:

Last Updated on STN: 4 Jun 1998

=> d 128 4 ibib

L28 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

1998:218988 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 128:256401

Synthesis of recombinant human cytosine GM-TITLE:

CSF in the seeds of transgenic tobacco plants

Sardana, Ravinder K.; Ganz, Peter R.; AUTHOR(S):

Dudani, Anil; Tackaberry, Eilleen S.; Cheng,

Xiongying; Altosaar, Illimar

CORPORATE SOURCE: Department of Biochemistry, University of Ottawa, ON,

Can.

Methods in Biotechnology (1998), 3(Recombinant SOURCE:

Proteins from Plants), 77-87

CODEN: MEBIFQ

PUBLISHER: Humana Press Inc.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 128 5 ibib

L28 ANSWER 5 OF 6 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER: 1998:54322 CABA

DOCUMENT NUMBER: 19981602409

TITLE: Expression of human blood proteins in transgenic

plants: the cytokine GM-CSF as a

model protein

AUTHOR: Ganz, P. R.; Dudani, A. K.; Tackaberry, E.

S.; Sardana, R.; Sauder, C.; Cheng XiongYing;

Altosaar, I.; Cheng, X. Y.; Owen, M. R. L. [EDITOR];

Pen, J. [EDITOR]

CORPORATE SOURCE: Drugs Directorate, Health Canada, Ottawa, Canada.

SOURCE:

Transgenic plants: a production system for

italisgenic planes, a production system for

industrial and pharmaceutical proteins, (1996) pp.

281-297. 53 ref.

Publisher: John Wiley & Sons Ltd. Chichester

ISBN: 0-471-96444-1

PUB. COUNTRY: DOCUMENT TYPE:

United Kingdom Book; Book Article

LANGUAGE: English

ENTRY DATE: Entered STN: 19980407

Last Updated on STN: 19980407

=> d 128 6 ibib

L28 ANSWER 6 OF 6 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

DUPLICATE 2

ACCESSION NUMBER: 1993:204406 BIOSIS DOCUMENT NUMBER: PREV199395105631

TITLE: Platelet-activating factor secreted by DDAVP-treated

monocytes mediates von Willebrand factor release from

endothelial cells.

AUTHOR(S): Hashemi, S. [Reprint author]; Palmer, D. S.; Aye, M. T.;

Ganz, P. R.

CORPORATE SOURCE: Ottawa Cent., Can. Red Cross, Blood Transfusion Serv.,

Ottawa, Ontario, Can. K1S 3E2, canada

SOURCE: Journal of Cellular Physiology, (1993) Vol. 154, No. 3, pp.

496-505.

CODEN: JCLLAX. ISSN: 0021-9541.

DOCUMENT TYPE:

Article English

LANGUAGE: ENTRY DATE:

Entered STN: 23 Apr 1993

Last Updated on STN: 24 Apr 1993

=> s Tackaberry, E?/au

L29 87 TACKABERRY, E?/AU

=> s GM-CSF

L30 35233 GM-CSF

=> s 129 and 130

L31 7 L29 AND L30

=> duplicate remove

ENTER L# LIST OR (END):131

DUPLICATE PREFERENCE IS 'BIOSIS, CAPLUS, CABA' KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L31

L32 5 DUPLICATE REMOVE L31 (2 DUPLICATES REMOVED)

=> d 132 1 ibib

L32 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:185497 CAPLUS

DOCUMENT NUMBER: 142:275034

TITLE: Methods for synthesis of recombinant human

granulocyte-macrophage colony stimulating factor in

transgenic cereal crops

INVENTOR(S): Altosaar, Illimar; Sardana, Ravinder; Dudani, Anil;

Ganz, Peter; Tackaberry, Eilleen

PATENT ASSIGNEE(S): Can.

SOURCE: U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2005050602 A1 20050303 US 2003-723083 20031126

PRIORITY APPLN. INFO.: CA 2002-2410702 A 20021126

=> d 132 2 ibib

L32 ANSWER 2 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

DUPLICATE 1

ACCESSION NUMBER: 2003:23292 BIOSIS DOCUMENT NUMBER: PREV200300023292

TITLE: Biological activity of human granulocyte-macrophage colony

stimulating factor is maintained in a fusion with seed

glutelin peptide.

AUTHOR(S): Sardana, Ravinder K.; Alli, Zaman; Dudani, Anil;

Tackaberry, Eilleen; Panahi, Mitra; Narayanan,

Muthukrishnan; Ganz, Peter; Altosaar, Illimar [Reprint

Author]

CORPORATE SOURCE: Department of Biochemistry, Microbiology and Immunology,

Faculty of Medicine, University of Ottawa, 40 Marie Curie,

Ottawa, ON, K1N 6N5, Canada

altosaar@uottawa.ca

SOURCE: Transgenic Research, (October 2002) Vol. 11, No. 5, pp.

521-531. print.

ISSN: 0962-8819 (ISSN print).

DOCUMENT TYPE:

Article

LANGUAGE:

English

ENTRY DATE:

Entered STN: 1 Jan 2003

Last Updated on STN: 1 Jan 2003

=> d 132 3 ibib

L32 ANSWER 3 OF 5 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1998:236789 BIOSIS DOCUMENT NUMBER: PREV199800236789

TITLE: Synthesis of recombinant human cytokine GM-

CSF in the seeds of transgenic tobacco plants.

Sardana, Ravinder K.; Ganz, Peter R.; Dudani, Anil; AUTHOR(S):

Tackaberry, Eilleen S.; Cheng, Xiongying; Altosaar,

Illimar

CORPORATE SOURCE:

Dep. Biochem., Univ. Ottawa, Ottawa, ON, Canada

SOURCE:

Cunningham, C. [Editor]; Porter, A. J. R. [Editor]. (1998) pp. 77-87. Methods in Biotechnology; Recombinant proteins form plants: Production and isolation of clinically useful

compounds. print.

Publisher: Humana Press Inc., Suite 808, 999 Riverview Drive, Totowa, New Jersey 07512, USA. Series: Methods in

Biotechnology.

ISBN: 0-89603-390-2.

DOCUMENT TYPE:

Book

Book; (Book Chapter)

LANGUAGE:

English

ENTRY DATE:

Entered STN: 4 Jun 1998

Last Updated on STN: 4 Jun 1998

=> d 132 4 ibib

L32 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1998:218988 CAPLUS

DOCUMENT NUMBER: TITLE:

Synthesis of recombinant human cytosine GM-

128:256401

CSF in the seeds of transgenic tobacco plants Sardana, Ravinder K.; Ganz, Peter R.; Dudani, Anil; AUTHOR(S):

Tackaberry, Eilleen S.; Cheng, Xiongying;

Altosaar, Illimar

CORPORATE SOURCE:

Department of Biochemistry, University of Ottawa, ON,

Can.

SOURCE:

Methods in Biotechnology (1998), 3(Recombinant

Proteins from Plants), 77-87

CODEN: MEBIFQ

PUBLISHER:

Humana Press Inc.

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

REFERENCE COUNT:

20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 132 5 ibib

L32 ANSWER 5 OF 5 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER:

1998:54322 CABA 19981602409

DOCUMENT NUMBER: TITLE:

Expression of human blood proteins in transgenic

plants: the cytokine GM-CSF as a

model protein

AUTHOR:

Ganz, P. R.; Dudani, A. K.; Tackaberry, E. S.; Sardana, R.; Sauder, C.; Cheng XiongYing;

Altosaar, I.; Cheng, X. Y.; Owen, M. R. L. [EDITOR];

Pen, J. [EDITOR]

CORPORATE SOURCE:

Drugs Directorate, Health Canada, Ottawa, Canada.

SOURCE:

Transgenic plants: a production system for

industrial and pharmaceutical proteins, (1996) pp.

281-297. 53 ref.

Publisher: John Wiley & Sons Ltd. Chichester

ISBN: 0-471-96444-1 United Kingdom

PUB. COUNTRY: DOCUMENT TYPE:

ENTRY DATE:

Book; Book Article

LANGUAGE: English

Entered STN: 19980407

Last Updated on STN: 19980407

=> s (transformed or transgenic) (w) plant L33 50961 (TRANSFORMED OR TRANSGENIC) (W) PLANT

=> s GM-CSF L34 35233 GM-CSF

=> s optimized (w) codon L35 86 OPTIMIZED (W) CODON

=> s 134 and 135 L37 3 L34 AND L35

=> duplicate remove
ENTER L# LIST OR (END):137
DUPLICATE PREFERENCE IS 'BIOSIS, CAPLUS, EMBASE'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L37
L38 1 DUPLICATE REMOVE L37 (2 DUPLICATES REMOVED)

=> d 138 1 ibib

=> s GM-CSF 35233 GM-CSF => s plant 5779251 PLANT L11=> s 110 and 111 414 L10 AND L11 => s (transgenic or transformed) (w) plants 46971 (TRANSGENIC OR TRANSFORMED) (W) PLANTS => s 110 and 113 13 L10 AND L13 => duplicate remove ENTER L# LIST OR (END):114 DUPLICATE PREFERENCE IS 'AGRICOLA, CAPLUS, CABA' KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n PROCESSING COMPLETED FOR L14 12 DUPLICATE REMOVE L14 (1 DUPLICATE REMOVED) => d 115 1 ibib L15 ANSWER 1 OF 12 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. DUPLICATE 1 (2005) on STN ACCESSION NUMBER: 2004:21009 AGRICOLA IND43625311 DOCUMENT NUMBER: Direct transfer and expression of human GM-TITLE: CSF in tobacco suspension cell using Agrobacterium-mediated transfer system. Kim, Y.S.; Kwon, T.H.; Sik, Y.M. AUTHOR(S): AVAILABILITY: DNAL (QK725.P53) SOURCE: Plant cell, tissue and organ culture, 2004 Aug. Vol. 78, no. 2 p. 133-138 ISSN: 0167-6857 Includes references NOTE: Article DOCUMENT TYPE: Non-US FILE SEGMENT: LANGUAGE: English => d 115 2 ibib L15 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2003:551249 CAPLUS 139:112732 DOCUMENT NUMBER: TITLE: Transgnic plants expressing cytokines and autoantigens and uses for treating inflammatory diseases Brandle, Jim; Ma, Shengwu; Menassa, Rima; Jevnikar, INVENTOR(S): Anthony; Delovitch, Terry The Minister of Agriculture & Agri-Food Canada, London PATENT ASSIGNEE(S): Health Sciences Center, Can. U.S. Pat. Appl. Publ., 48 pp., Cont.-in-part of U.S. SOURCE: Ser. No. 773,385. CODEN: USXXCO

English FAMILY ACC. NUM. COUNT:

Patent

DOCUMENT TYPE:

LANGUAGE:

PATENT INFORMATION:

PATENT NO.	KIND DATE		APPLICATION NO.	DATE		
US 2003135887 US 2002038470	A1 A1	20030717	US 2002-137647 US 2001-773385	20020503		
EP 1359220 EP 1359220	A2 A3	20020328	EP 2002-257531	20010201		
R: AT, BE, CH,	DE, DK	K, ES, FR,	GB, GR, IT, LI, LU, N			
IE, SI, LT, CA 2427574	AA	20031103	CY, AL, TR, BG, CZ, E CA 2003-2427574	20030505		
PRIORITY APPLN. INFO.:			US 1996-733791 US 1998-102050	B2 19961018 B1 19980622		
			US 2001-773385 US 2002-137647	A2 20010201 A 20020503		
			EP 2002-257531	A 20021030		

=> d 115 3 ibib

L15 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:832739 CAPLUS

DOCUMENT NUMBER: 141:18135

TITLE: Expression of recombinant cytokines in

transgenic plants and their uses

AUTHOR(S): Matsumura, Takeshi

Institute for Biological Resources and Functions, CORPORATE SOURCE:

National Institute of Advanced Industrial Science and

Technology, Japan

Biobencha (2003), 3(5), 29-31 SOURCE:

CODEN: BIOBC8; ISSN: 1346-5376

Yodosha PUBLISHER:

Journal; General Review DOCUMENT TYPE:

LANGUAGE: Japanese

=> d 115 4 ibib

L15 ANSWER 4 OF 12 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER: 2002:160621 CABA

DOCUMENT NUMBER: 20023092021

TITLE: Effects of osmotic pressure on production of

recombinant human granulocyte-macrophage colony stimulating factor in plant cell suspension culture

Special issue: Applied biotechnology in Asia

Lee JaeHwa; Kim NanSun; Kwon TaeHo; Yang MoonSik; AUTHOR:

Lee, J. H.; Kim, N. S.; Kwon, T. H.; Yang, M. S. Division of Biological Sciences, Basic Science CORPORATE SOURCE:

Research Institute, Dukjindong 664-14, Chonju,

Chonbuk 561-756, Korea Republic.

mskyang@moak.chonbuk.ac.kr

SOURCE: Enzyme and Microbial Technology, (2002) Vol. 30, No.

6, pp. 768-773. 22 ref.

Publisher: Elsevier Science Inc. New York

ISSN: 0141-0229

PUB. COUNTRY: United States

Journal DOCUMENT TYPE: English LANGUAGE:

ENTRY DATE: Entered STN: 20021004

Last Updated on STN: 20021004

L15 ANSWER 5 OF 12 CABA COPYRIGHT 2005 CABI on STN

2003:19386 CABA ACCESSION NUMBER:

20023171035 DOCUMENT NUMBER:

Biological activity of human granulocyte-macrophage TITLE:

colony stimulating factor is maintained in a fusion

with seed glutelin peptide

Sardana, R. K.; Alli, Z.; Dudani, A.; Tackaberry, AUTHOR:

E.; Panahi, M.; Narayanan, M.; Ganz, P.; Altosaar,

CORPORATE SOURCE: Department of Biochemistry, Microbiology and

Immunology, Faculty of Medicine, University of Ottawa, 40 Marie Curie, Ottawa, Ontario, KlN 6N5,

Canada. altosaar@uottawa.ca

Transgenic Research, (2002) Vol. 11, No. 5, pp. SOURCE:

521-531. many ref.

Publisher: Kluwer Academic Publishers. Dordrecht

ISSN: 0962-8819

PUB. COUNTRY: Netherlands Antilles

Journal DOCUMENT TYPE: English LANGUAGE:

Entered STN: 20030214 ENTRY DATE:

Last Updated on STN: 20030214

=> d 115 6 ibib

AUTHOR:

L15 ANSWER 6 OF 12 CABA COPYRIGHT 2005 CABI on STN

2002:160859 CABA ACCESSION NUMBER:

20023093713 DOCUMENT NUMBER:

Increased production of human granulocyte-macrophage TITLE:

colony stimulating factor (hGM-CSF) by the addition of stabilizing polymer in plant suspension cultures Lee JaeHwa; Kim NanSun; Kwon TaeHo; Jang YongSuk;

Yang MoonSik; Lee, J. H.; Kim, N. S.; Kwon, T. H.; Jang, Y. S.; Yang, M. S.

Basic Science Research Institute, Chonbuk National CORPORATE SOURCE:

University, Dukjindong 664-14, Chonju, Chonbuk

561-756, Korea Republic. mskyang@moak.chonbuk.ac.kr

Journal of Biotechnology, (2002) Vol. 96, No. 3, pp. SOURCE:

205-211. 19 ref.

Publisher: Elsevier Science Ltd. Oxford

ISSN: 0168-1656 United Kingdom

PUB. COUNTRY: DOCUMENT TYPE:

Journal English LANGUAGE:

Entered STN: 20021004 ENTRY DATE:

Last Updated on STN: 20021004

=> d 115 7 ibib

L15 ANSWER 7 OF 12 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER: 2003:23562 CABA

20023186189 DOCUMENT NUMBER:

Increased production and recovery of secreted TITLE:

foreign proteins from plant cell cultures using an

affinity chromatography bioreactor

James, E.; Mills, D. R.; Lee, J. M. AUTHOR:

Department of Chemical Engineering, Washington State CORPORATE SOURCE:

University, Pullman, WA 99163-2710, USA.

jmlee@mail.wsu.edu

Biochemical Engineering Journal, (2002) Vol. 12, No. SOURCE:

3, pp. 205-213.

Publisher: Elsevier Science B.V. Amsterdam

ISSN: 1369-703x

URL: http://www.sciencedirect.com/science? ob=Articl

eURL& udi=B6V5N-4625TNG-

3& user=10& coverDate=12%2F31%2F2002& rdoc=5& fmt=su mmary& orig=browse& srch=%23toc%235791%232002%239998 $79996\$\overline{2}3366427! \& \underline{\texttt{cdi}} = 5791\& \underline{\texttt{sort}} = d\& \underline{\texttt{docanchor}} = \& \underline{\texttt{wchp}} = d\\ \underline{\texttt{GLbVzz}} - 18zB8\& \underline{\texttt{acct}} = C000050221\& \underline{\texttt{version}} = 1\& \underline{\texttt{urlVersion}}$ =0& userid=10&md5=e1821e50c0c8961125f05bb21e44eb4e

DOI: 10.1016/S1369-703X(02)00073-6

Netherlands Antilles

PUB. COUNTRY: DOCUMENT TYPE:

Journal English

LANGUAGE: ENTRY DATE:

Entered STN: 20030214

Last Updated on STN: 20030214

=> d 115 7 abs

L15 ANSWER 7 OF 12 CABA COPYRIGHT 2005 CABI on STN

Although plant cell cultures can be used to produce a variety of proteins, the instability and degradation of secreted proteins hinders product recovery from culture medium. To solve this problem, an affinity chromatography bioreactor (ACBR) scheme was developed for the simultaneous production and purification of foreign proteins from genetically modified plant suspension cultures. Two model products, the heavy chain of a mouse monoclonal antibody (HC MAb) and 6-his tagged human granulocyte macrophage colony-stimulating factor (GM-CSF), were produced in a modified shake flask and separated using protein G and iminodiacetic acid metal affinity resins, respectively. Results showed that the ACBR scheme increased the production of HC MAb by as much as eight-fold and GM -CSF by more than two-fold compared with batch yields. Product recovery was optimized by varying the aeration method, flow rate, pH, and resin type for the experimental system. These results suggest that in situ protein removal from plant cell media using the ACBR strategy can isolate the product from degrading influences and remove the protein from product inhibition pathways.

=> d 115 8 ibib

L15 ANSWER 8 OF 12 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER:

2002:26085 CABA

DOCUMENT NUMBER:

20013139787

TITLE:

The effect of immobilization on recombinant protein

production in plant cell culture

AUTHOR: CORPORATE SOURCE: Bodeutsch, T.; James, E. A.; Lee, J. M.

Department of Chemical Engineering, Washington State University, Pullman, WA 99164-2710, USA.

SOURCE:

Plant Cell Reports, (2001) Vol. 20, No. 6, pp.

562-566. 19 ref.

Publisher: Springer-Verlag. Berlin

ISSN: 0721-7714

DOI: 10.1007/s002990100354 Germany, Federal Republic of

PUB. COUNTRY: DOCUMENT TYPE:

Journal English

LANGUAGE: ENTRY DATE:

Entered STN: 20020207

Last Updated on STN: 20020207

=> d 115 8 abs

L15 ANSWER 8 OF 12 CABA COPYRIGHT 2005 CABI on STN

The effects of encapsulation on the production of recombinant human

proteins by transgenic Nicotiana tabacum cells were investigated using alginate, carrageenan, and agar as immobilization matrices. Experiments showed that cell encapsulation in alginate increase the production of human granulocyte-macrophage colony-stimulating factor (GM-CSF) in tobacco cells by approximately 50%. Alginate also yielded the highest quality beads and the most reproducible growth results. The most likely cause for this increased protein production is the altered growth conditions within the alginate beads resulting in a prolonged exponential growth phase. To characterize these effects, we compared growth performance and protein production for various gel geometries, bead sizes, and volume fractions of beads.

=> d 115 9 ibib

L15 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1999:819497 CAPLUS

DOCUMENT NUMBER:

132:60143

TITLE:

Cryptic regulatory elements obtained from plants for seed specific expression in both dicots and monocots Miki, Brian; Ouellet, Therese; Hattori, Jiro; Foster, Elizabeth; Labbe, Helene; Martin-heller, Teresa; Tian,

INVENTOR(S):

Elizabeth; Labbe, Helene; Martin-heller, Teresa; Tian Lining; Brown, Daniel Charles William; Zhang, Peijun;

Wu, Keqiang

PATENT ASSIGNEE(S):

Her Majesty the Queen In Right of Canada as Represented by the Minister of Agriculture and

Agri-Food, Can.; et al. PCT Int. Appl., 108 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

r. 5

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA ^r	TENT 1	. 00			KIN				APPLICATION NO.					DATE			
	9967: 9967:				A2				1	WO 1999-CA578					19990622		
	W: RW:	DE, JP, MN, TM, MD, GH,	DK, KE, MW, TR, RU, GM,	EE, KG, MX, TT, TJ, KE,	ES, KP, NO, UA, TM LS,	FI, KR, NZ, UG,	AZ, GB, KZ, PL, US, SD, IE,	GD, LC, PT, UZ,	GE, LK, RO, VN,	GH, LR, RU, YU, UG,	GM, LS, SD, ZA, ZW,	HR, LT, SE, ZW,	HU, LU, SG, AM, BE,	ID, LV, SI, AZ,	IL, MD, SK, BY,	IN, MG, SL, KG,	IS, MK, TJ, KZ,
CA CA AU	58246 22466 23316 99436 10886 R:	CI, 863 892 842 551 073 AT,	CM,	GA,	GN, A AA AA A1 A2	GW,	MT.	MR, 1020 1222 1229 0110 0404	NE,	SN, US 1 CA 1 CA 1 AU 1 EP 1	TD, 995- 998- 999- 999-	TG 4415 2246 2331 4355 9262	97 892 842 1 05		1 1 1 1	9950 9980 9990 9990 9990	515 909 622 622 622
US	2001 2004 2005 Y APP	0730. 0557	91 22 42		A1		2004	0415		US 2 US 2 US 1 US 1 CA 1 CA 1 US 1	003- 004- 995- 998- 998- 996- 998-	4372 8665 4415 1023 2246 2149 5931 1749	68 61 29 97 12 892 000 21 99		A2 1 A 1 A 1 A 1 A1 1 B2 1	0030 0040 9950 9980 9950 9960 9981	513 610 515 622 909 509 201

A1 19991207 US 1999-457123 US 2000-747368 A1 20001222

=> d l15 10 ibib

L15 ANSWER 10 OF 12 CABA COPYRIGHT 2005 CABI on STN

1998:54322 CABA ACCESSION NUMBER:

DOCUMENT NUMBER: 19981602409

TITLE: Expression of human blood proteins in

transgenic plants: the cytokine

GM-CSF as a model protein

AUTHOR:

Ganz, P. R.; Dudani, A. K.; Tackaberry, E. S.; Sardana, R.; Sauder, C.; Cheng XiongYing; Altosaar, I.; Cheng, X. Y.; Owen, M. R. L. [EDITOR]; Pen, J.

[EDITOR]

CORPORATE SOURCE:

Drugs Directorate, Health Canada, Ottawa, Canada.

SOURCE:

Transgenic plants: a production system for

industrial and pharmaceutical proteins, (1996) pp.

281-297. 53 ref.

Publisher: John Wiley & Sons Ltd. Chichester

ISBN: 0-471-96444-1

PUB. COUNTRY: DOCUMENT TYPE: LANGUAGE:

United Kingdom Book; Book Article

English

ENTRY DATE:

Entered STN: 19980407

Last Updated on STN: 19980407

=> d 115 11 ibib

L15 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1995:705506 CAPLUS

DOCUMENT NUMBER:

123:76437

TITLE:

Manufacture of foreign proteins in plants as

components of a viral polyprotein with release of the

protein through normal polyprotein processing

INVENTOR(S):

Carrington, James C.; Dolja, Valerian V.

PATENT ASSIGNEE(S):

Texas A and M University, USA

SOURCE:

PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.					KIN	DAT	DATE		APPLICATION NO.				DATE		
											-				
WO	VO 9512669			A1	A1 19950511			WO 1994-US12836				19941101			
	W:	ΑU,	CA,	JP,	KR										
	RW:	AT,	BE,	CH,	DE,	DK, ES	, FR,	GB, G	R, IE,	IT, LU	J, MC,	NL,	PT,	SE	
US	US 5491076				Α	199	60213	US	1993-	146881		1	19931	101	
ZA	94085	561			Α	199	50630	ZA	1994-	8561		1	19941	031	
AU	95140	080			A1	199	50523	AU	1995-	14080		-	19941	101	
PRIORITY	APP1	LN.	INFO	. :				US	1993-	146881		A :	19931	101	
								WO	1994-	US1283	5	W :	L9941	101	

=> d 115 10 abs

L15 ANSWER 10 OF 12 CABA COPYRIGHT 2005 CABI on STN

The production of human growth factors in transgenic

plants is reviewed, focusing on expression of the cytokine

GM-CSF (granulocyte-macrophage colony stimulating

factor) in genetically engineered tobacco.

=> d 115 11 abs

L15 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN

A method of manufacturing foreign proteins in plants that makes use of the polyprotein processing machinery of plant viruses is described. A sequence encoding the protein of interest is incorporated into the polyprotein gene of a plant virus and introduced into plant cells. protein is then released as a result of the normal processing of the polyprotein. The virus may be a potyvirus, a nepovirus or a comovirus with tobacco etch potyvirus (TEV) being particularly preferred. The proteins involved may affect resistance to pests or agronomic traits such as stress resistance, and crop yield or quality or they may be for pharmaceutical use. Tests using a reporter gene (for β glucuronidase) showed that a replication-competent TEV vector permitted efficient systemic spread of the gene with the capacity for a large foreign insert. Spontaneous mutants indicated that the HC-Pro region was not essential for replication of the virus or intraplant movement, but that it played a role in interplant movement.

=> d l15 12 ibib

L15 ANSWER 12 OF 12 CABA COPYRIGHT 2005 CABI on STN

ACCESSION NUMBER:

95:197929 CABA

DOCUMENT NUMBER:

19951612170

TITLE:

Harvesting blood proteins from grain

Robinson, A.

AUTHOR: SOURCE:

Canadian Medical Association Journal, (1995) Vol.

153, No. 4, pp. 427-429. 6 ref.

ISSN: 0820-3946

DOCUMENT TYPE:

LANGUAGE:

SUMMARY LANGUAGE:

ENTRY DATE:

Journal English French

Entered STN: 19951115

Last Updated on STN: 19951115